REMARKS

In the Office Action dated October 21, 2005, claims 1-31 were presented for examination. Claims 1-31 were rejected under 35 U.S.C. §102(b) as being anticipated by *Kermani*, U.S. Patent No. 6,163,831.

Applicant hereby incorporates the remarks pertaining to *Kermani* presented in the Response to the Fourth Office Action filed August 5, 2005 for the pending application. The following remarks are provided in support of the pending claims and responsive to the Office Action of May 5, 2005 for the pending application.

In the Office Action dated October 21, 2005, the Examiner assigned to the application rejected claims 1-31 under 35 U.S. C. §102(e) as being anticipated by *Kermani* (*831). As noted in the Response to the Fourth Office Action, the *Kermani* patent (*831) relates to hardware elements for controlling access to shared synchronous memory. In *Kermani*, the agents 100, 104, 106, 108 are equally placed in a structure with each agent sharing access to synchronous memory. Each of agents may submit a memory access request wherein "a winning agent is preferably selected based on a priority level assigned to each of the requesting agents." Col. 4, lines 50-52. The Examiner equivocates a priority of *Kermani* to the hierarchy as claimed by Applicant. However, these two terms are not synonymous. In the communication filed July 21, 2004, a hierarchy was defined as an organizational technique in which items are layered or grouped to reduce complexity. A priority is defined as "superiority in rank, position, or privilege", and a rank is defined as a "position in a hierarchy." Accordingly, a hierarchy cannot be equated with a priority.

¹Merriam-Webster OnLine Dictionary, attached as Exhibit A.

²The New Lexicon Webster's Dictionary Of The English Language, page 827, attached as Exhibit B.

Additionally, a hierarchical structure does not necessitate the assignment of priorities to the elements within that structure. Conversely, a priority is an ordering of elements that does not necessitate the creation of a hierarchical structure. There is no provision in the system of Kermani for ordering the agents using their complexity into any form of a hierarchical structure. By definition, such an ordering is required in order to have a hierarchical system. Accordingly, Kermani does not teach the hierarchical organization of the processors as claimed by Applicant.

Furthermore, in Applicant's invention the placement of the processor requesting the lock in view of the hierarchical organization of the processors is determinative of the order of the processing of the lock between all elements within the hierarchy. The lock of Kermani is responsive to a priority level assigned to the requesting agent. See Col. 4, lines 51-52. There is no provision in Kermani for processing a lock responsive to a hierarchy, especially since Kermani does not organize its agents in a hierarchy. Kermani uses a linear arrangement of agents to grant locks based upon a priority level assigned to the agents. This is not processing a lock responsive to a hierarchical structure, it is processing a lock responsive to a ranking within a linear arrangement that only provides for the priority of an agent in relation to other agents. Accordingly, the locks of Kermani are not responsive to a hierarchy of processors, as the injection of such a hierarchical system in Kermani would in fact contradict Kermani's own stated system of assigning locks based upon a priority level assigned to the agents.

With respect to the claimed lock of Applicant's invention, each of Applicant's independent claims 1, 13, and 22 includes a limitation that the lock is either an interruptible lock or a lock which waits using only local memory. The lock of Kermani is not a lock which waits using only local memory. As noted by the Examiner in the Fifth Office Action, page 4, "As Kermani notes at Col. 11, lines 47-67 discloses the arbiter provides the ability for any agent to lock its ownership of the shared memory (local memory)." In fact, the lock of Kermani waits on an arbiter or a pre-arbiter - the lock does not wait on memory. Applicant claims their lock as a lock which waits using only local memory. Accordingly, Applicant's invention utilizes only local memory while Kermani does not, and thereby functions differently than Kermani.

With respect to the limitation of an interruptible lock, Applicant respectfully disagrees with the Examiner extremely broad interpretation of Kermani. As noted in the response to the Fourth Office Action, Kermani implements use of a pre-arbiter and "then waits until the current owning agent experiences a lapse of, e.g., one clock cycle in its consecutive memory access." See Col. 11, lines 58-59. A lapse is defined as "the termination of a right or privilege through disuse or failure to follow appropriate procedures." In Kermani, a waiting agent can access shared memory when another agent has terminated it's lock on the shared memory. This is not interrupting a lock, this is accessing a lock that is otherwise available as it is not in a state of being held by another agent. Similarly, this is not an interruptible lock, as based upon the definition of the word "lapse" this is a lock that has been terminated and is available. Accordingly, there is no provision in Kermani for an interruptible lock.

Under the law of anticipation, "[f]or a prior art reference to anticipate in terms of 35 U.S.C. §102, every element of the claimed invention must be identically shown in a single reference. Diversitech Corp. v. Century Steps, Inc., 7 USPQ2d 1315, 1317 (Fed. Cir. 1988). As mentioned above, Kermani does not show all of the elements as claimed by Applicant in pending claims 1-31. Specifically, Kermani does not show processors organized in a hierarchy, an interruptible lock and/or a lock which waits using only local memory, or processing the lock responsive to the hierarchy, as claimed by Applicant. "A previous patent anticipates a purported invention only where, except for insubstantial differences, it contains all of the same elements operating in the same fashion to perform an identical function." Saunders v. Air-Flo Co., 646 F.2d 1201, 1203 (7th Cir. 1981) citing Popeil Brothers, Inc. V. Schick Electric, Inc., 494 F.2d 162, 164 (7th Cir. 1974) (holding patents were not invalid as being anticipated by or obvious in light of prior art). Kermani does not anticipate the invention of Applicants based upon the legal definition of anticipation. Although the prior art cited by the Examiner relates to a processor and a lock associated therewith, Kermani fails to show each and every element as presented in

³Compact Oxford English Dictionary, attached as Exhibit C.

Applicant's claimed invention. Accordingly, Applicant respectfully requests that the Examiner remove the rejection of claims 1-31 and provide allowance of this application.

Applicants believe that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. Accordingly, Applicants request that the Examiner indicate allowability of claims 1-31, and that the application pass to issue. If the Examiner believes, for any reason, that personal communication will expedite prosecution of the application, the Examiner is hereby invited to telephone the undersigned at the number provided.

In light of the foregoing remarks, all of the claims now presented are in condition for allowance, and Applicants respectfully request that the outstanding rejections be withdrawn and this application be passed to issue.

Respectfully submitted,

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priority

One entry found for priority.

Main Entry: pri-or-i-ty

Pronunciation: prI-'or-&-tE, -'ar-

Function: noun

Inflected Form(s): plural -ties

1 a (1): the quality or state of being prior (2): precedence in date or position of publication - used of taxa b (1): superiority in rank, position, or privilege (2): legal precedence in exercise of rights over the same subject matter 2: a preferential rating, especially: one that allocates rights to goods and services usually in limited supply <that project has top priority>

3: something given or meriting attention before competing alternatives

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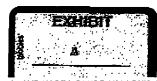
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OF THE ENGLISH LANGUAGE



:amification

cation (remifike) on the process of ing I the way in which branches are ed I a branch or offshoot I (biol.) a ed structure is a development or outof something which has expanded as
by branching, the ramifications of the
hard to follow it. M.L. ramificare (rami), to ramify]

i), to ramity]

(rámifai) pres. part. ram-My-ing past st part. ram-fried v.t. to cause to form or e branches or subdivisions [v.i. to spread branching [F. namifer]
lies. Battle of (rámiliz, ræmiyi:) a vic-706) of Marlborough, commanding allied putch and Danish armies, during the

by Osthambough, armies, during the ithe Spanish Succession ex (rumfres), Ignacio (1818-97), Maxilitidan, writer and poet, of pure Indian who styled himself El nigroments (the ancer). When not inflamed by politics he classical love sonnets, notably 'Al amor', and 'A mi musa' (rámdyst) n. a jot engine in which the 10f air used for fuel combustion is combustion in the comb

400 mi o y Ca-jal (ramóni:kohól), Santiago 1934), Spanish physician and biologist, inner (1908) of the Nobel prize for medi-

e (ræmóus, remóus) adj. composed of or g branches (fr. L. ramosus) (ræmp) n. a slamba merk

g orangaes (ut. 1. ramosus)
(remp) n. a aloping path or way joining
int levels of a building, road etc. | (archit.)
rence in level in the opposite abutanents
unpant arch || an upward bend in a state
unpant arch || an upward bend in a state
unpant arch || for upper

g an aircraft [F. rampe]

n. (Br., pop.) a racket, swindle (etym. ful)

full v.i. to slope up or down to a different lavel v.i. to slope up or down to a different lavel v.i. to the with a ramp (O.F. ramper, to creep) age 1. (rampeint) v.i. pres. part. rampage and past part. rampaged to be violently, be in a storm of anger 2 saids) n. violent or uncontrolled behavior, the phase on the rampage furiously.

n the phrase on the rampage furiously, esp. punitively or destructively ramous adj. [Scot., etym. doubtful] ancy (rampage). n. the state or quality or ramous and ramous ramo

ng rampant ant (rampent) edj. (heraldry, of a lion) on ind legs with forepaws menacingly or agively outstretched and the head in profile in a strength of the same and proclaming them salvely, a rampant militarist || (of crime, se etc.) rife || (of cross, weeds etc.) growing exhed || (archit, of an arch) with one abuthigher than the other [F., prea. part. of ng rampant

er, to ramp) art (remport) 1. n. (hist.) a broad-topped nkment, usually with a stone parapet, ructed for defense i something compared is 2. v.t. to protect with a rampart or as th with a rampart [fr. F. rempart, ram-

mr (rámpur) a tewn (pop. 135,000) of N. Pradesh, India: damask, chemicala, elec-

r rradesh, India: damaak, chemicala, election of the goods, jewelry od (rimmod) n. (hist.) a long, straight rod in used to force the gunpowder and bulleta (the barrel of a musale-loading gun || a rod isaning the bore of a rifle or gun || a keen plinarian

pinerian say (ramsi;), Sir William (1852-1916), ish chemist. He discovered the line spec-tof helium in uranium and thorium ores. (Lord Rayleigh he discovered argon (1894) was also one of the discoverers of neon, ton and zenon. Nobel prize (1904) iden (ramzden), Jesse (1735-1800),

iden (ramzdən), Jesse (1735-1800), ih opticism and instrument maker. He der it the equatorial mounting for telescope invented a machine for gradusting instru-

is five II (remsiz) (d. c. 1223 BC), king of it (c. 1230—c. 1223 BC), of the 19th dy. He extended Egyptian rule over Ethioned part of Arabla, and was at war with the tes for 15 years. He had many monuments feep, at Thebes

sea III (d. c. 1158 B.C.), king of Egypt (c. F-c. 1158 B.C.) of the 20th dynasty. He won lary successes in Nubia and Syria

827

ram-shackle (remiskl) adj. (of a structure, machine etc.) so old or badly made or in such disrepair that it is in danger of falling to pieces [fr. older rumshackled] ram-son (remson, ramsun) n. Allium ursinum, fam Liliaceae, a species of garlic with broad leaves || (ol.) the root of this plant, used esp. in salads [O.E. hrumson, pl. of hrumson, wild garlic]

ram-til (ramtil) n. Guisotia abysginica, Compositee, a plant cultivated in India for its seeds, from which an oil is expressed [Hindi

seeds, from which an oll is expressed [Hindir rdmtil] ram-alose (ramploons) adj. having numerous small branches (fr. L. ramulosus)
Rasmus (raimes). Potrus (Fierre de la Ramée, 1515-72), French philosopher. He opposed Aristotelian scholestician and encouraged akeptical thought. He was converted to Calvinism and was killed in the Massacre of St Bartholomow ramus (raimes) pl. ravni (raimes) n. (biol.) a hranchlike structure, e.g. the barb of a feather, the mandible or its proximal part of a vertebrate, or a branch of a nerve [L.=branch] ram post of HUN
Ramed (rusel), Armand Jean le Bouthillier de (1626-1700), Franch religious reformer. His reform of the Clisteruian order (c. 1662) gave rise to the Trappists
ranch (ramti) 1. n. a (arm, esp in the southwest and western U.S.A. and S.W. central Canada, for breeding and raising cattle, horses or sheep ji the people living and working on a ranch 2. v.i. to manage a ranch | v.t. to raise (an animal) on a ranch it to use cland as a ranch raincher n. a

the people living and working on a ranch 2. 2. to manage a ranch || 0. to raise (an animal) on a ranch || to use (land) as a ranch rancher n. a person who owns or manages a ranch, or a ranch hand [fr. 5pon. rancho, a mess (group dining together)]
rancheror (remiferou) n. (esp. in the southwest U.S.A. and Mexico) a rancher [Span.]
ranchertte (remifet) n. I. a small ranch 2. small

ranchestie (ræntsat) n. 1. a small ranch 2. small ranch-type house ranch house a house built on one level, sometanch house a house built on one level, sometimes with adjoining half levels. Cf BLEVEI.
Ran-chi (róntsi:) a town (pop. 122,000) in Bihar, India, in Chota Nagpur: aik weaving, lacquer rancheman (réntsmen) n. ranchem (réntsmen) n. a rancher ran-chd (rénaid) adj. (esp. of food) smelling or tasting foul because of chemical change, esp. due to age reur-cid-ty n. (fr. L. rancidus) rancor, Br. rancour (rénkar) n. bitter, lasting hatred or malignant spite rán-corous adj. (O.F. rancour)

hatred or malignant spite ran-corous adj. [O.F. runcour]
Rand (rand). Ayn (1905-82), U.S. writer, originator of objectivism, born in Russia. Her philosophy encompassed self-interest as a reason for action, self-fulfilment as a responsibility and productivity as the ultimate. She wrote The Fountainhead' (1943) and 'Atlas Shrugged' (1957) and edited her own newsletter (1962-82) rand (rand) n. the strip of leather or similar material between the heel and sole of a shoe or hoot [O.E. rand, rond, a border, margin] rand n. (abbr.) the basic monetary unit of the republic of South Africa, divided into 100 cents || a coin of the value of one rand R & B *RHYTHM AND ELUES
R & D (acronym) for research and develop-

R & D (acronym) for research and development

rand-i-ness (randinis) a the quality or state of

rand-ness (rand-mis) h. the quality of state of being randy random (rand-m) 1. n. (only in the phrase) at random in an unplanned way, without any predetermined direction, purpose or method 2. adj. haphazard, random bombing | made or chosen at random, a random guess || (math., of numbers) as likely to come up as any others in a set [O.F. randon fr. randir, to run fast, gal-

random access (computer) capability of obtaining stored information in any order—random-access adj.—random-access memory (RAM) n.

R and R (acronym) 1. rest and recreation; 2.

R and R (acronym) 1. rest and recreation; 2. rest and recuperation
Rand, the (rand) *WITWATERSRAND
Randolph (randolf, randolf), Asa Philip (18891979), U.S. labor leader, organizer of the Brotherhood of Sileeping Car Porters (1926), vicepresident of the AFL-CIO from 1955. He was a
major influence in the organization of the federal Fair Employment Practices Committee
and worked for civil rights in industry and government, directing the March on Washington
for Jobs and Freedom (1963)
Randolph, Edmund (1753-1813), U.S. statesmen. A delegate to the Constitutional Conven-

rank

tion of 1787, he presented his Virginia Plan. He served (1789-94) as the first attorney general of the U.S.A. Bandolph, John (1773-1833), U.S. orator and

Congressman from Virginia who vigorously supported the cause of states rights randy (randi:) comp. rander superi. randicate od; lecherous lprob. fr. obs. rand, var. of

supported the cause of states' rights' randy (reindil: comp. randser super!. randset adj. lecherous iprob. fr. obe. rand, var. of RANT] range past of EING range (reindy) n. a row, file or rank of things || a group of mountains considered as forming a commetted system || a cooking stove, esp. one fired by solid fitel || grazing land for cattle, shoop etc., nsually not fenced in || freedom to roam at will, to give free range to one simagination || a maximum attainable distance, the missile has a range of 2,000 miles || field, scope, within one's range of vision || the distance of a target from a gun etc. or this as a setting on a sight || the maximum distance which an aircreft ct. can travel without refueling || a place for practicing shooting || (statistics) the area of magnitude within which a variable lies || an order or class, the upper ranges of society || extent between limits, area of activity, experience or knowledge, within the income range of interests || the scope of the voice or an instrument || the region over which a plant or animal is distributed || one of the north-south rows of a township numbered east west from the principal maridian of a public-land survey [O.F.] range pres. part. rangeing past and past part. ranged w.t. to place in a line or orderly pattern, there were ranged along the roadside || to wander through || to pasture (cattle etc.) on a range || (Br., printing) to set (type) so that the start or end of the line or word falls directly under some other part of the matter being cet, range the author's name under the last word of the title || (Br., printing) to make (lines of type, margins etc.) straight || to pat in a class etc., he ranged himself with the opposition || to fire and observe single rounds from (a gran or guns) in an attempt to bracket a target || (naml, to arrange & tweet ranged as far as he could see || to go about, move freely, they range through the desert, his speech ranged over a number of topics || (epachs ranged (rindger) or an instrument for establishing the dist

any (1520) rangy (ráind3i:) comp. rang4er superl. rang-i-est adj. tail, alim and loose-limbed (RANGS n.

or v.] ra-ni, ra-nee (rúni:) n. an Indian princess | the

wife of a raja [Hind. rdn!]
Ban-jit Singh (rdnd;itsin) (1780-1889). Sikh
ruler. He conquered Kashmir and the Punjab,
allied himself with the British and united the

allied himself with the British and united the Punjab into the most powerful state in India rank (rank) 1. n. a homogeneous line or row of persons or things || a level of relative excellence, writing of the very first rank || position in a hierarchy || high social position, a men of rank || a row of soldiers standing or marching abreast || (pl.) the body of private soldiers, to rise from the ranks || (cheed) one of the horizontal lines extending across a chessboard 2 b.t. to arrange in a renk or ranks || to ascribe a level or position in a rank or ranks | to ascribe a level or position in a rank or ranks | to ascribe a level or peakend in a hierarchy to, to rank something very highly | to hold a higher rank than, a major ranks a lieutenant || v.i. to form a rank or ranks || to belong to a category in a hierarchy, he rank with our finest poets || to be in the top rank,

TSE PRONUNCIATION KEY: (a) & cat; a car; o faun; él, snake. (a) s, hen; i. shesp; i., derr; ce, bear. (i) i, fish; al, tiger; er, bird fix; au, cow; on, goat; u, poor; ol, royal. (u) A, duck; u, bull; ui, goose; o, becillus; ju:, cube. x, loch; 6, think; 6, bother; z, Zen; 3, coreage; yage: n. orangutaner i, vak: (, fish; tl, fatch; 'l, rabble; 'n, redden. Complete pronunciation key appears inside front cover. PAGE 12/14 * RCVD AT 12/21/2005 4:45:37 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-6/30 * DNIS:2738300 * CSID:301 948 7774 * DURATION (mm-ss):03-58

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¹⁹⁸¹为付款公司

lapse

- noun 1 a brief failure of concentration, memory, or judgement. 2 a decline from previously high standards. 3 an interval of time. 4 Law the termination of a right or privilege through disuse or failure to follow appropriate procedures.
- verb 1 (of a right, privilege, or agreement) become invalid because it is not used, claimed, or renewed. 2 cease to follow the rules and practices of a religion or doctrine. 3 (lapse into) pass gradually into (a different, often worse, state or condition).
 - ORIGIN Latin lapsus, from labi 'to slip or fall'.

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